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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/294,659	04/19/1999	CHANG-SOO PARK	678-259(P873	6375	
75	10/30/2002				
PAUL J FARRELL ESQ DILWORTH & BARRESE 333 EARLE OVINGTON BOULEVARD			EXAMINER		
			LIU, SHUWANG		
UNIONDALE,	NY 11553		ART UNIT	PAPER NUMBER	
			2634		
			DATE MAILED: 10/30/2002	DATE MAILED: 10/30/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		iY 1(A				
	Application No.	Applicant(s)				
	09/294,659	PARK ET AL.				
^ Office Action Summary	Examiner	Art Unit				
	Shuwang Liu	2634				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing	66(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
earned patent term adjustment. See 37 CFR 1.704(b). Status	,	,,,				
1) Responsive to communication(s) filed on 19 A	pril 1999 .					
· · · · ·	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-28</u> is/are pending in the application.						
4a) Of the above claim(s) <u>12-16 and 26-28</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7,9-11,17-22 and 24</u> is/are rejected.						
7) Claim(s) <u>6,8,23 and 25</u> is/are objected to.						
8)☐ Claim(s) are subject to restriction and/or Application Papers	election requirement.					
9) The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on 19 April 1999 is/are: a)		ha Evaminor				
	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents	have been received in Applicati	on No				
 3. Copies of the certified copies of the priori application from the International Bure * See the attached detailed Office action for a list of 	eau (PCT Rule 17.2(a)).	•				
14) Acknowledgment is made of a claim for domestic						
a) The translation of the foreign language prov 15) Acknowledgment is made of a claim for domestic	visional application has been rec	eived.				
Attachment(s)	, ,					
) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 a	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				
Patent and Trademark Office						

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1-11 and 17-25 in Paper No. 8 is acknowledged.

Drawings

2. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily

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published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1, 2, 9-11, 17, and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Chennakeshu et al. (US 6,192,503).

As shown in figure 6, Chennakeshu et al. discloses a receiver for communication system, comprising:

(1) regarding claims 1 and 17:

a message information receiver (140) for receiving information about a message to be received;

a controller (160) for determining an iterative decoding number according to the received message information (165) (column 9, lines 37-55); and

a decoder (152) for iteratively decoding the received message according to the determined iterative decoding number.

(2) regarding claims 2 and 18:

wherein the message information includes a class of received data (signal characteristic, for example, signal strength).

(3) regarding claims 9-11:

wherein the decoder is a soft-decision decoder (150) which is a MAP or SOVA (column 4, lines 12-30 and column 8, lines 12-49).

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5. Claims 1, 2, 5, 7, 17, 18, 22 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Hagenauer et al. (US 5,761,248).

As shown in figures 1-2, Hagenauer et al. discloses a receiver for communication system, comprising:

(1) regarding claims 1 and 17:

a message information receiver for receiving information about a message to be received (column 7, line 50-columen 9, line 10);

a controller for determining an iterative decoding number according to the received message information (column 7, line 50-column 9, line 10); and

a decoder for iteratively decoding the received message according to the determined iterative decoding number(column 7, line 50-column 9, line 10).

- (2) regarding claims 2, 18, 22 and 5:
- wherein the class includes a permissible time delay (column 8, lines 20-21).
- (3) regarding claims 7 and 24:

wherein the message information includes a service type of the received data (column 7, line 50-columen 9, line 10).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 3, 4, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chennakeshu et al. in view of Hagenauer et al. (US 6,377,610).

(1) regarding claims 3, 4, 20 and 21:

Chennakeshu et al. discloses all of the subject matter except for specifically teaching of the class including a bit error rate (BER) as recited in claims.

Hagenauer et al., in the same field of endeavor, teaches the relation between BER and iterative decoding number as shown in figure 11. The iterative decoding number increases (from 1 to 5) if the BER is less than a predetermined number.

efficiently and with likelihood of bit errors than is possible with known methods so that by using the controller to determine the relation between BER and iterative decoding number. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to using the BER as the class of the receiving data as taught by Hagenauer et al. in the decoder process in order to allow the receiver having more efficiently decoding.

Allowable Subject Matter

8. Claims 6, 23, 8 and 25 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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Conclusion

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shuwang Liu whose telephone number is (703) 308-

9556.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin, can be reached at (703) 305-4714.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Technology Center 2600 Customer Service Office

whose telephone number is (703) 306-0377.

Shuwang Liu

October 23, 2002

Sharay Li

SHUWANG LIU PRIMARY EXAMINER